

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	8	("20010019664" "20040004671" "20040259590" "6094215" "6494093" "6563535" "6626040" "6873357").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:36
L7	454	camera and mode with magnet\$4 with switch\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:39
L8	3229160	7 aand @ay<"2001"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:37
L9	354	7 and @ay<"2001"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:38
L10	236	9 not disc	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:38
L11	55	camera and mode with magnet\$4 with switch\$4 with position and @ay<"2001"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:41
L12	3	camera and mode with magnet\$4 with switch\$4 with position and @ay<"2001" and detect\$4 with angle	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:42
L13	41864	camera and detect\$4 with attitude with magnet\$4 @ay<"2001" and detect\$4 with angle	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:42
L14	3225858	camera and detect\$4 with attitude with magnet\$4 @ay<"2001"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:42
L15	2161	camera and detect\$4 with attitude with magnet\$4 @ay<"2001" and detect\$4 with angle and chang\$4 near4 mode	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:43
L16	0	camera and detect\$4 with attitude with magnet\$4 and @ay<"2001" and detect\$4 with angle and chang\$4 near4 mode	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:43
L17	4	camera and detect\$4 with attitude with magnet\$4 and @ay<"2001"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:49
L18	122	camera and detect\$4 with angle with magnet\$4 and @ay<"2001"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 14:11
L19	1	18 and chang\$4 with mode with angle	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:50

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L20	15	18 and chang\$4 with mode	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:50
L58	15	("20030137595"   "3620149"   "4055761"   "5302778"   "5359190"   "5371397"   "5400072"   "5400073"   "5587832"   "5600486"   "5821532"   "6122009"   "6130448"   "6266197"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 15:17
L59	120	"348"/\$.ccls. and barrel near4 mov\$4 and @ad<"19990903"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 15:36
L60	3551	lens near3 (barrel or mount\$4 or hold\$3) and (ccd or sensor or camera or imager) and thread\$4 and @ad<"19990903"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 15:37
L61	1689	lens near3 (barrel or mount\$4 or hold\$3) and (ccd or sensor or camera or imager) and thread\$4 with lens and @ad<"19990903"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 15:38
L62	1204	lens near3 (barrel or mount\$4 or hold\$3) and (ccd or sensor or camera or imager) and thread\$4 with lens with (barrel or mount\$4 or hold\$3) and @ad<"19990903"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 15:38
L63	892	lens near3 (barrel or mount\$4 or hold\$3) same (ccd or sensor or camera or imager) and thread\$4 with lens with (barrel or mount\$4 or hold\$3) and @ad<"19990903"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 15:48
L64	8	("5739853").URPN.	USPAT	OR	OFF	2007/05/22 15:41
L65	18	("2684611"   "3587422"   "3625596"   "3682069"   "5757559").PN. OR ("6011661").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 15:45
L66	23	("3018689"   "3880528"   "4055761"   "4293190"   "4390220"   "4433886"   "4744009"   "4801998"   "4843313"   "4971930"   "4980635"   "5001315"   "5424531"   "5444520"   "5579164"   "5590787"   "5821532"   "5867368"   "6011661"   "6037655"   "6384472"   "6396116").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 15:45
L67	36	("4055761").URPN.	USPAT	OR	OFF	2007/05/22 15:46

## EAST Search History

L68	28	("3018689"   "3880528"   "4055761"   "4293190"   "4390220"   "4433886"   "4582350"   "4744009"   "4801998"   "4843313"   "4936784"   "4971930"   "4980635"   "4999142"   "5001315"   "5444520"   "5579164"   "5590787"   "5615052"   "5617131"   "5801374"   "5821532"   "5867368"   "5949655"   "6188841"   "6266197"   "6270222"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 15:47
L69	27	("3880528").URPN.	USPAT	OR	OFF	2007/05/22 15:48
L70	308	lens near3 (barrel or mount\$4 or hold\$3) same (ccd or sensor or camera or imager) and thread\$4 with lens with (barrel or mount\$4 or hold\$3) with (focus\$4 or zoom\$3) and @ad<"19990903"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 15:49
L71	919	348/373.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 17:39
L72	371	348/374.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 17:39
L73	493	348/375.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 17:39
L74	847	438/121.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 17:39
L75	499	348/340.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:40
L76	835	348/335.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:40
L77	0	348/394.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:40
L78	379	348/374.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:41

## EAST Search History

L79	1486	257/700.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:41
L80	5873290	"30"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:41
L81	618	257/730.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:41
L82	597	257/684.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:41
L83	978	257/719.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:41
L84	259	257/708.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:41
L85	161	257/709.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:42
L86	185	257/711.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:42
S1	8	"6392703"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 15:12
S2	6	"6392703".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 16:06
S3	852	348/373.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/22 17:39
S4	552	348/345.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 16:11
S5	440	348/340.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 16:15

## EAST Search History

S6	35	("20020008920" "20020027721" "4037938" "5157550" "5570229" "5973858" "6104432" "6124984" "6124987" "6185048" "6308011" "6331917" "6339508" "6349002" "6414791").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/18 16:15
S7	10	("6339508").URPN.	USPAT	OR	OFF	2006/09/18 16:16
S8	13	("20030161620"   "20040105020"   "3649101"   "4810072"   "5570229"   "5668668"   "6016228"   "6088169"   "6124987"   "6185048"   "6308011"   "6339508"   "6754446").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 11:05
S9	2	("6392703").URPN.	USPAT	OR	OFF	2006/09/19 11:06
S10	12	("4317029"   "4369459"   "4809680"   "4997698"   "5130804"   "5301042"   "5302778"   "5337475"   "5400072"   "5543837"   "5825560"   "5984188").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 11:06
S11	31	("5302778").URPN.	USPAT	OR	OFF	2006/09/19 11:07
S12	8	("4074306"   "4516157"   "4745470"   "4831456"   "4832003"   "4918521"   "4992875"   "5040069").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:03
S13	17	("4594613"   "4745470"   "4757805").PN. OR ("5040069").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:07
S14	5	("4870496"   "5040069"   "5220198"   "5861654"   "6122009").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:10
S15	30	("4893163"   "4940888"   "5011256"   "5065226"   "5122861"   "5130531"   "5132532"   "5408131"   "5525840"   "5536974").PN. OR ("5861654").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:11
S16	17	("4594613"   "4745470"   "4757805").PN. OR ("5040069").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:15
S17	9	("3757127"   "4113354"   "4594613"   "4682219"   "4692608"   "4745470"   "4773396"   "5021888"   "5040069").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:16
S18	14	("4317029"   "4369459"   "4809680"   "4997698"   "5130804"   "5301042"   "5302778"   "5337475"   "5400072"   "5543837"   "5825560"   "5984188").PN. OR ("6392703").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:18

## EAST Search History

S19	15	("4594613"   "5040069"   "5072283"   "5087964"   "5596229"   "5861654"   "5870638"   "5952714"   "6035147"   "6204896"   "6362921"   "6392703"   "6528778"   "6628339"   "6693674").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:18
S20	27	("4760440"   "4873566"   "4879588"   "4891686"   "4953001"   "4985753"   "4990719").PN. OR ("5087964").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:23
S21	39	("3593070"   "4326214"   "4406054"   "4482781").PN. OR ("4760440").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:46
S22	67	lens near4 barrel with washer	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 14:47
S23	107	lens near4 barrel with washer	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 14:47
S24	0	lens near4 barrel with washer with substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 14:48
S25	0	lens near4 barrel with washer same substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 14:48
S26	14	lens near4 barrel with washer and substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 14:49
S27	434	lens near4 barrel with (washer or plate) and substrate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 14:49

## EAST Search History

S28	236	S27 and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 15:13
S29	8	camera and (lens near3 (mount or tructure or barrel)) with (washer or plate) with substrate and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 14:55
S30	89	camera and (lens near3 (mount or tructure or barrel)) with (washer or plate) with (substrate or board) and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 14:58
S31	539	camera and ((lens near3 (mount or tructure or barrel)) or lens) with (washer or plate) with (substrate or board) and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 15:07
S32	249	camera and ((lens near3 (mount or tructure or barrel)) or lens) with (washer or plate) with (substrate) and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 15:08
S33	814	438/121.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/22 17:39
S34	249	S32 and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 15:08
S35	369	S33 and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 15:12

## EAST Search History

S36	5184	(substrate or circuit adj board) with (lens or (lens adj (support or mount or barrel))) with (plate or washer or separat\$4 or adapter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 15:13
S37	2469	S36 and (@rlad<"19990903" or @ad<"19990903")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 15:14
S38	441	S37 and camera	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/19 15:16
S39	462	S37 and camera	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 15:14
S40	63	S37 and (electronic or digital) near2 camera	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 15:14
S41	751	S37 and (ccd or sensor or imager)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 15:17
S42	17	("4074306"   "4516157"   "4745470"   "4831456"   "4832003"   "4918521"   "4992875"   "5040069").PN. OR ("5130804").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 15:19
S43	7	("4636627"   "5091793"   "5130804"   "5444485"   "5517364"   "5825560").PN. OR ("6392688").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 16:05
S44	18	("5418566" "5561458" "5617131" "5777335" "5847887" "6011860" "6122009" "6172351" "6172361" "6187522" "6369435" "6512219" "6571466" "6603107" "6724503" "6727564" "6745061" "6768516").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 16:05



## EAST Search History

S45	4	("4594613"   "5040069"   "5418566"   "5847887").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 17:19
S46	734	348/294.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 18:10
S47	444	348/340.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 17:40
S48	758	348/335.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 18:11
S49	342	348/374.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 18:11
S50	879	348/373.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 18:11
S51	24	((kazuhiro with hoshino) or (hirofuni with sumi) or (kazuya with kanagawa)).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 18:12
S52	138	((kazuhiro with hoshino) or (hirofuni with sumi) or (kazuya with kanagawa)).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 18:12

## EAST Search History

S53	551	(US-20030016284-\$ or US-20040080642-\$ or US-20040056971-\$ or US-20070070511-\$ or US-20070070228-\$ or US-20070069395-\$ or US-20070069105-\$ or US-20070065128-\$ or US-20070057150-\$ or US-20070057148-\$ or US-20070054419-\$ or US-20070053685-\$ or US-20070047952-\$ or US-20070047109-\$ or US-20070045551-\$ or US-20070045550-\$ or US-20070040932-\$ or US-20070035785-\$ or US-20070034782-\$ or US-20070029466-\$ or US-20070025715-\$ or US-20070019950-\$ or US-20070019102-\$ or US-20070019101-\$ or US-20060268157-\$ or US-20060266835-\$).did. or (US-20060257131-\$ or US-20060252246-\$ or US-20060244859-\$ or US-20060243884-\$ or US-20060239671-\$ or US-20060140609-\$ or US-20060231750-\$ or US-20060228103-\$ or US-20060228099-\$ or US-20060227236-\$ or US-20060221469-\$ or US-20060219862-\$ or US-20060209365-\$ or US-20060209205-\$ or US-20060204243-\$ or US-20060203875-\$ or US-20060203095-\$ or US-20060202318-\$ or US-20060197862-\$ or US-20060189216-\$ or US-20060189183-\$ or US-20060187337-\$ or US-20060181633-\$ or US-20060171701-\$ or US-20060171698-\$ or US-20060170814-\$ or US-20060164539-\$).did. or (US-20060163461-\$ or US-20060152826-\$ or US-20060152614-\$ or US-20060152576-\$ or US-20060141226-\$ or US-20060140450-\$ or	US-PGPUB; OR USPAT	OFF	2007/05/19 13:15
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## EAST Search History

S54	37	("4266090"   "4404582"   "4412093"   "4427991"   "4442456"   "4457017").PN. OR ("4594613").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:16
S55	14	("4134129"   "4385325"   "4594613"   "4734778"   "4803557"   "4830985"   "5032898"   "5047835"   "5097274"   "5140150"   "5291010").PN. OR ("5731834").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:19
S56	4	("4862208"   "5502598"   "6249653"   "6341902").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:21
S57	12	("4594613"   "5302778"   "5359190"   "5673083"   "5821532"   "5828409"   "5861654").PN. OR ("6693674").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:22
S58	4	("4594613"   "5040069"   "5418566"   "5847887").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:24
S59	2	"6109464"	JPO; DERWENT	OR	OFF	2007/05/19 13:25
S60	0	6-109464	JPO; DERWENT	OR	OFF	2007/05/19 13:25
S61	0	06-109464	JPO; DERWENT	OR	OFF	2007/05/19 13:25
S62	1	"06109464"	JPO; DERWENT	OR	OFF	2007/05/19 13:26
S63	2	"06275855"	JPO; DERWENT	OR	OFF	2007/05/19 13:26
S64	0	11-76156	JPO; DERWENT	OR	OFF	2007/05/19 13:26
S65	6	"1176156"	JPO; DERWENT	OR	OFF	2007/05/19 13:26
S66	0	"11-076156"	JPO; DERWENT	OR	OFF	2007/05/19 13:26
S67	0	11-076156	JPO; DERWENT	OR	OFF	2007/05/19 13:27
S68	2	"11076156"	JPO; DERWENT	OR	OFF	2007/05/19 13:27
S69	17	("4785338"   "4896217"   "5077784"   "5087964"   "5122861"   "5150180"   "5523608"   "5763943"   "5783815"   "5940126").PN. OR ("6795120").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:32
S70	70	S53 and @ad<"19990903"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:39

## EAST Search History

S71	300923	((solid near4 state near4 (imag\$4 near4 (device or apparatus or pick\$4-up or captur\$4 or sens\$4 or detect\$4))) or imager or ccd or sensor) and @ad<"19990903"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 14:02
S72	7560	S71 and plate near4 metal	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:42
S73	470	S72 and lens and substrate	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:43
S74	216	S72 and lens and substrate with plate	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:43
S75	81	("4321747"   "4479298"   "4776088"   "4924297"   "5109269"   "5298742"   "5406454"   "5418691"   "5468996"   "5530291"   "5532519").PN. OR ("5821532").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:50
S76	72	(tomita with yoshihiro).in.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 13:51
S77	487	(tomita with yoshihiro).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/19 13:59
S78	2	"4594613".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/19 13:59
S79	10095	((solid near4 state near4 (imag\$4 near4 (device or apparatus or pick\$4-up or captur\$4 or sens\$4 or detect\$4))) or imager or ccd or sensor) and @ad<"19990903" and metal\$4 near4 (plate or spacer or washer or reinforc\$5 or strenght\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/19 14:32
S80	1203	((solid near4 state near4 (imag\$4 near4 (device or apparatus or pick\$4-up or captur\$4 or sens\$4 or detect\$4))) or imager or ccd) and @ad<"19990903" and metal\$4 near4 (plate or spacer or washer or reinforc\$5 or strenght\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/19 14:05

## EAST Search History

S81	186	((solid near4 state near4 (imag\$4 near4 (device or apparatus or pick\$4-up or captur\$4 or sens\$4 or detect\$4))) or imager or ccd) and @ad<"19990903" and metal\$4 near4 (plate or spacer or washer or reinforc\$5 or strenght\$4) with (cb or board or substrate)	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/19 14:15
S82	1	"5130804".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/05/19 14:16
S83	20	((solid near4 state near4 (imag\$4 near4 (device or apparatus or pick\$4-up or captur\$4 or sens\$4 or detect\$4))) or imager or ccd or sensor) and @ad<"19990903" and metal\$4 near1 (plate or spacer or washer or reinforc\$5 or strenght\$4) with (strong\$4 or strenght or reinforc\$4 or protect\$4) with (board or sunstrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 14:44
S84	4	((solid near4 state near4 (imag\$4 near4 (device or apparatus or pick\$4-up or captur\$4 or sens\$4 or detect\$4))) or imager or ccd or sensor) and @ad<"19990903" and metal\$4 near1 (plate or spacer or washer or reinforc\$5 or strenght\$4) with (lens\$3 or optic\$4) with (board or sunstrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:31
S85	52	@ad<"19990903" and metal\$4 near1 (plate or spacer or washer or reinforc\$5 or strenght\$4) with (lens\$3 or optic\$4) with (board or sunstrate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 14:53
S86	1	@ad<"19990903" and metal\$4 near4 (plate or spacer or washer or reinforc\$5 or strenght\$4) with (lens\$3 or optic\$4) with (board or sunstrate) with (sensor or ccd or imager)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 14:54
S87	23	@ad<"19990903" and metal\$4 near4 (plate or spacer or washer or reinforc\$5 or strenght\$4) and plate with (lens\$3 or optic\$4) with (board or sunstrate) with (sensor or ccd or imager)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 14:55

## EAST Search History

S88	80	@ad<"19990903" and metal\$4 near4 (plate or spacer or washer or reinforc\$5 or strenght\$4) and plate with (lens\$3 or optic\$4) with (board or sunstrate) and (sensor or ccd or imager)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 14:59
S89	63	@ad<"19990903" and lens with (spacer or washer or plate) with metal\$4 with substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:06
S90	23	@rlad<"19990903" and lens with (spacer or washer or plate) with metal\$4 with substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:19
S91	102	@ad<"19990903" and lens with (spacer or washer or plate) with substrate with (sensor or ccd or imager or (solid near4 state near4 device))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:16
S92	10	("5233382").URPN.	USPAT	OR	OFF	2007/05/19 15:17
S93	2058	@rlad<"19990903" and plate near4 metal\$4 with metal\$4 with substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:20
S94	70	@rlad<"19990903" and plate near4 metal\$4 with metal\$4 with substrate with (strong\$4 or reinforc\$4 or strength\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:20
S95	143	@rlad<"19990903" and plate near4 metal\$4 with metal\$4 with substrate with (strong\$4 or reinforc\$4 or strength\$4 or rigid\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:23

## EAST Search History

S96	42	S95 and imag\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/19 15:24
S97	13	((solid near4 state near4 (imag\$4 near4 (device or apparatus or pick\$4-up or captur\$4 or sens\$4 or detect\$4))) or imager or ccd or sensor) and metal\$4 near1 (plate or spacer or washer or reinforc\$5 or strenght\$4) with (lens\$3 or optic\$4) with (board or sunstrate) with lens	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:08
S98	6752	((wir\$3 or circuit) near2 board) or substrate) with (plate or washer or spacer) with (sensor or imager or ccd or (solid near2 state near3 device))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:09
S99	2464	((wir\$3 or circuit) near2 board) or substrate) with (plate or washer or spacer) with (sensor or imager or ccd or (solid near2 state near3 device)) and imag\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:11
S10 0	996	S99 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:13
S10 1	130	((wir\$3 or circuit) near2 board) or substrate) with (plate or washer or spacer) near4 (metal\$4 or alumin\$4 or stainless or iron or copper or gold) with (sensor or imager or ccd or (solid near2 state near3 device)) and imag\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:12
S10 2	46	S101 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:12

## EAST Search History

S10 3	24	lens near3 (holder or mount\$4) with (metal or alumin\$4 or copper or gold or stainless) near4 (washer or plate or spacer or separat\$4) with (substrate or board)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:32
S10 4	20	lens near3 (holder or mount\$4) with (washer or plate or spacer or separat\$4) with (substrate or board) with (reinforc\$4 or strength\$4 or rigid or crack or fisure or protect\$4 or hard\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:38
S10 5	2	11/376249	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:40
S10 6	29	("20010030276" "20010050717" "4634884" "5021888" "5424531" "5748448" "5786589" "6043482" "6160967" "6417885" "6483101" "6528778" "6654064" "6727564").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 12:40
S10 7	6	("20010055073"   "4634884"   "5172304"   "6433414"   "6444487"   "6476417").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 12:40
S10 8	22	("4457017"   "4581657"   "4594613"   "5153734"   "5559556"   "5739853"   "5748448"   "5753908"   "5825560"   "5828409"   "5835142"   "5894368"   "5998786"   "6072126"   "6285400").PN. OR ("6654064").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 14:40
S10 9	68	flip\$4chip near4 sensor and image	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 14:41
S11 0	20	("20010035576"   "20010050721"   "20020110949"   "5113290"   "5400072"   "5821532"   "5861654"   "5865935"   "5912774"   "5990552"   "5998878"   "6037641"   "6075237"   "6133569"   "6144031"   "6147389"   "6303978"   "6389687"   "6518656"   "6571466").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 14:46



## EAST Search History

S11 1	11	("20010012098"   "4560273"   "5153734"   "5609561"   "5673083"   "5699073"   "6025873"   "6072232"   "6084238"   "6203222"   "6326602").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 14:46
S11 2	4	("4926227"   "5122561"   "5359208"   "5867368").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 14:54
S11 3	75	("4663652"   "4760440"   "5118370"   "5200631"   "5331512"   "5357056"   "5478007"   "5495450"   "5753857"   "5786589").PN. OR ("5867368").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 14:58
S11 4	67	("4888634"   "4902108"   "5051802"   "5148306"   "5149958"   "5302818"   "5693967"   "5814870"   "5821615"   "5861654"   "5867368"   "5869855"   "5998862").PN. OR ("6130448").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 15:04
S11 5	33	("5786589").URPN.	USPAT	OR	OFF	2007/05/21 15:16
S11 6	28	("5357056").URPN.	USPAT	OR	OFF	2007/05/21 15:36
S11 7	0	10/660649	USPAT	OR	OFF	2007/05/21 15:36
S11 8	6	("20020057468" "6507443" "6759642").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 15:37
S11 9	14	("20010030276"   "20010050717"   "20020044213"   "5021888"   "5424531"   "5748448"   "5786589"   "6043482"   "6160967"   "6417885"   "6483101"   "6528778"   "6654064"   "6727564").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 15:44
S12 0	4	"06001970"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 15:44
S12 1	0	06-001970	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 15:45

## EAST Search History

S12 2	0	6-001970	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 15:45
S12 3	28	6-1970	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 15:45
S12 4	159	(KAWABE with KAZUNARI TANAKA with KAZUTOSHI ANDO with SHOICHI).in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 15:46
S12 5	20	("20010035576"   "20010050721"   "20020110949"   "5113290"   "5400072"   "5821532"   "5861654"   "5865935"   "5912774"   "5990552"   "5998878"   "6037641"   "6075237"   "6133569"   "6144031"   "6147389"   "6303978"   "6389687"   "6518656"   "6571466").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:02
S12 6	1	("5113290").URPN.	USPAT	OR	OFF	2007/05/21 16:03
S12 7	12	("3246563"   "3558220"   "3740114"   "4055761"   "4116529"   "4215916"   "4640579"   "4718750"   "4818067"   "4923281").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:06
S12 8	98	solid near3 state near3 device with lens with barrel	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:11
S12 9	249	((solid near4 state near4 device) or ccd or imager or sensor) same lens with barrel same substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:13

## EAST Search History

S13 0	64	S129 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:14
S13 1	841	((solid near4 state near4 device) or ccd or imager or sensor) same lens with barrel with focus\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:16
S13 2	288	S131 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:16
S13 3	696	((solid near4 state near4 device) or ccd or imager or sensor) same lens with barrel with mov\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:25
S13 4	221	S133 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:18
S13 5	5	("5444485"   "5627589"   "5673083"   "5731834"   "5765060").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:24
S13 6	235	((solid near4 state near4 device) or ccd or imager or sensor) and lens with barrel with mov\$3 and barrel with (board or substrate) and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:34

## EAST Search History

S13 7	163	S136 not tsikos.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:27
S13 8	163	S136 not tsikos.in. not "knowles.in"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:27
S13 9	150	S136 not tsikos.in. not knowles.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 17:06
S14 0	945	((solid near4 state near4 device) or ccd or imager or sensor) and lens with barrel with mov\$3 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:45
S14 1	30	("4518864"   "4554585"   "4691244"). PN. OR ("4896217").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:35

## EAST Search History

S14 2	98	("20030137595"   "3018689"   "3880528"   "4055761"   "4210922"   "4293190"   "4390220"   "4433886"   "4491865"   "4582350"   "4744009"   "4801998"   "4843313"   "4896217"   "4936784"   "4971930"   "4980635"   "4999142"   "5001315"   "5023442"   "5037187"   "5068713"   "5122861"   "5191481"   "5220198"   "5274456"   "5365101"   "5383034"   "5400072"   "5412229"   "5424531"   "5434682"   "5436492"   "5444520"   "5463229"   "5489995"   "5523608"   "5570204"   "5579164"   "5581094"   "5590787"   "5604362"   "5615052"   "5617131"   "5655189"   "5672902"   "5692083"   "5764424"   "5783815"   "5801374"   "5804827"   "5811799"   "5818634"   "5821532"   "5825033"   "5825560"   "5825954"   "5861654"   "5867368"   "5902993"   "5932875"   "5949655"   "5998878"   "6011294"   "6011661"   "6020582"   "6037655"   "6060722"   "6072232"   "6122009"   "6130448"   "6134057"   "6147389"   "6153927"   "6184514"   "6188841"   "6236046"   "6243540"   "6266197"   "6270222"   "6384397"   "6384472"   "6389687"   "6392703"   "6392827"   "6455774"   "6483030"   "6483101"   "6498624"   "6518656"   "6526653"   "6627864"   "6627872"   "6686588"   "6762796"   "6767753"   "6867438").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:36
S14 3	21	("5400072").URPN.	USPAT	OR	OFF	2007/05/21 16:39
S14 4	15	("20030137595"   "3620149"   "4055761"   "5302778"   "5359190"   "5371397"   "5400072"   "5400073"   "5587832"   "5600486"   "5821532"   "6122009"   "6130448"   "6266197"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:40
S14 5	5	("2918584"   "3215850"   "3880528"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:41
S14 6	36	("4055761").URPN.	USPAT	OR	OFF	2007/05/21 16:42
S14 7	0	09/078019	USPAT	OR	OFF	2007/05/21 16:43

## EAST Search History

S14 8	1	09/078019	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 16:43
S14 9	49	chriss with yoder	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/21 16:43
S15 0	10	("20030137595"   "4594613"   "5007854"   "5302778"   "5400072"   "5424531"   "5495114"   "6359652"   "6518656"   "6693674").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 16:44
S15 1	790	((solid near4 state near4 device) or ccd or imager or sensor) and lens near4 mov\$3 with barrel and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 16:47
S15 2	687	S151 not tsikos.in. not knowles.in. not zhu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 18:26

## EAST Search History

S15	551	(US-20030016284-\$ or	US-PGPUB; OR	OFF	2007/05/21 16:54
3		US-20040080642-\$ or	USPAT		
		US-20040056971-\$ or			
		US-20070070511-\$ or			
		US-20070070228-\$ or			
		US-20070069395-\$ or			
		US-20070069105-\$ or			
		US-20070065128-\$ or			
		US-20070057150-\$ or			
		US-20070057148-\$ or			
		US-20070054419-\$ or			
		US-20070053685-\$ or			
		US-20070047952-\$ or			
		US-20070047109-\$ or			
		US-20070045551-\$ or			
		US-20070045550-\$ or			
		US-20070040932-\$ or			
		US-20070035785-\$ or			
		US-20070034782-\$ or			
		US-20070029466-\$ or			
		US-20070025715-\$ or			
		US-20070019950-\$ or			
		US-20070019102-\$ or			
		US-20070019101-\$ or			
		US-20060268157-\$ or			
		US-20060266835-\$).did. or			
		(US-20060257131-\$ or			
		US-20060252246-\$ or			
		US-20060244859-\$ or			
		US-20060243884-\$ or			
		US-20060239671-\$ or			
		US-20060140609-\$ or			
		US-20060231750-\$ or			
		US-20060228103-\$ or			
		US-20060228099-\$ or			
		US-20060227236-\$ or			
		US-20060221469-\$ or			
		US-20060219862-\$ or			
		US-20060209365-\$ or			
		US-20060209205-\$ or			
		US-20060204243-\$ or			
		US-20060203875-\$ or			
		US-20060203095-\$ or			
		US-20060202318-\$ or			
		US-20060197862-\$ or			
		US-20060189216-\$ or			
		US-20060189183-\$ or			
		US-20060187337-\$ or			
		US-20060181633-\$ or			
		US-20060171701-\$ or			
		US-20060171698-\$ or			
		US-20060170814-\$ or			
		US-20060164539-\$).did. or			
		(US-20060163461-\$ or			
		US-20060152826-\$ or			
		US-20060152614-\$ or			
		US-20060152576-\$ or			
		US-20060141226-\$ or			
		US-20060140450-\$ or			

## EAST Search History

S15 4	71	S153 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT	OR	OFF	2007/05/21 16:57
S15 5	14	S154 and mov\$4 with (lens or barrel)	US-PGPUB; USPAT	OR	ON	2007/05/21 17:00
S15 6	160	lens near3 barrel with mov\$3 and barrel with substrate and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT	OR	ON	2007/05/21 17:05
S15 7	73	S156 not tsikos.in. not knowles.in. not zhu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 17:02
S15 8	26	("1417326"   "2444457"   "3782809"   "3941460"   "3942881"   "4589744"   "4699505"   "5137349").PN. OR ("5576895").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 17:03
S15 9	254	lens near3 (holder or mount\$4) with mov\$3 and (mount\$4 or holder) with substrate and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT	OR	ON	2007/05/21 17:12
S16 0	26	S158 not tsikos.in. not knowles.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 17:06
S16 1	165	S159 not tsikos.in. not knowles.in. not zhu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 17:12
S16 2	3519	lens near3 (holder or mount\$4) with mov\$3 and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT	OR	ON	2007/05/21 17:12
S16 3	3428	S162 not tsikos.in. not knowles.in. not zhu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 17:13



## EAST Search History

S16 4	2073	S163 and (sensor or imager or camera or ccd)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 17:13
S16 5	1784	S164 and (zoom\$4 or focus\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 17:30
S16 6	97	("20030137595"   "3018689"   "3880528"   "4055761"   "4210922"   "4293190"   "4390220"   "4433886"   "4491865"   "4582350"   "4744009"   "4801998"   "4843313"   "4896217"   "4936784"   "4971930"   "4980635"   "4999142"   "5001315"   "5023442"   "5037187"   "5068713"   "5122861"   "5191481"   "5220198"   "5274456"   "5365101"   "5383034"   "5400072"   "5412229"   "5424531"   "5434682"   "5436492"   "5444520"   "5463229"   "5489995"   "5523608"   "5570204"   "5579164"   "5581094"   "5590787"   "5604362"   "5615052"   "5617131"   "5655189"   "5672902"   "5692083"   "5764424"   "5783815"   "5801374"   "5804827"   "5811799"   "5818634"   "5821532"   "5825033"   "5825560"   "5825954"   "5861654"   "5867368"   "5902993"   "5932875"   "5949655"   "5998878"   "6011294"   "6011661"   "6020582"   "6037655"   "6060722"   "6072232"   "6122009"   "6130448"   "6134057"   "6147389"   "6153927"   "6184514"   "6188841"   "6236046"   "6243540"   "6266197"   "6270222"   "6384397"   "6384472"   "6389687"   "6392703"   "6392827"   "6455774"   "6483030"   "6483101"   "6498624"   "6518656"   "6526653"   "6627864"   "6627872"   "6762796"   "6767753"   "6867438").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 17:26

## EAST Search History

S16 7	34	substrate with lens with (holder or barrel or mount) same (sensor or imager or ccd or camera) and (mount or holder or barrel) near3 (mov\$3 or extend\$4) and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 18:25
S16 8	49	("20030099456" "20030123859" "20030193568" "20040027467" "4809079" "4864425" "5097344" "5130812" "5465133" "5473370" "5648816" "5726708" "5982429" "6005613" "6034728" "6346937" "6359649" "6400891" "6442336" "6654062" "6778760").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 18:16
S16 9	2901	lens with (holder or barrel or mount) same (sensor or imager or ccd or camera) and (mount or holder or barrel) near3 (mov\$3 or extend\$4) and (@ad<"19990903" or @rlad<"19990903")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 18:30
S17 0	195	S169 and substrate with (lens)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 18:26
S17 1	106	S170 not tsikos.in. not knowles.in. not zhu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 18:26
S17 2	3	"5673083".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/21 18:30
S17 3	30	("2540953"   "4148551"   "4148565"   "4298266"   "4416526"   "4491865"   "4594613"   "4702371"   "4767201"   "4788593"   "4819074"   "4839723"   "4864348"   "4866574"   "4893143").PN. OR ("5274456").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 18:34
S17 4	14	("5274456").URPN.	USPAT	OR	OFF	2007/05/21 18:36

## EAST Search History

S17 5	10	("4258982"   "4303306"   "4416526"   "4594613"   "4734778"   "4896217"   "5040069"   "5233426"   "5274456"   "5400072").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/21 18:40
S17 6	1	"7133076".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/22 10:34